

10/22/08 08:50:16

Inductive Core

Adhesive Zone

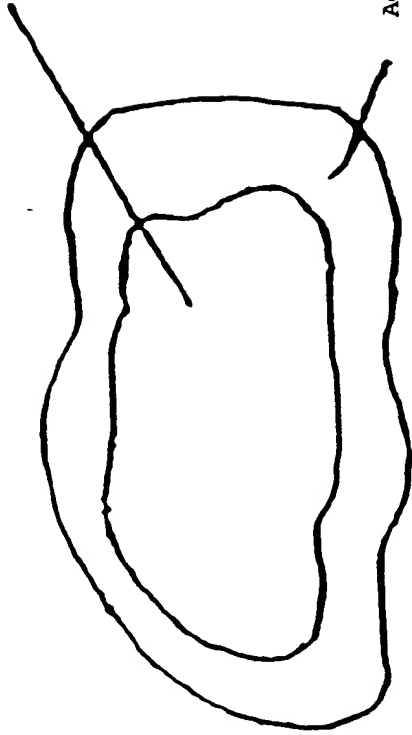


FIG. 1

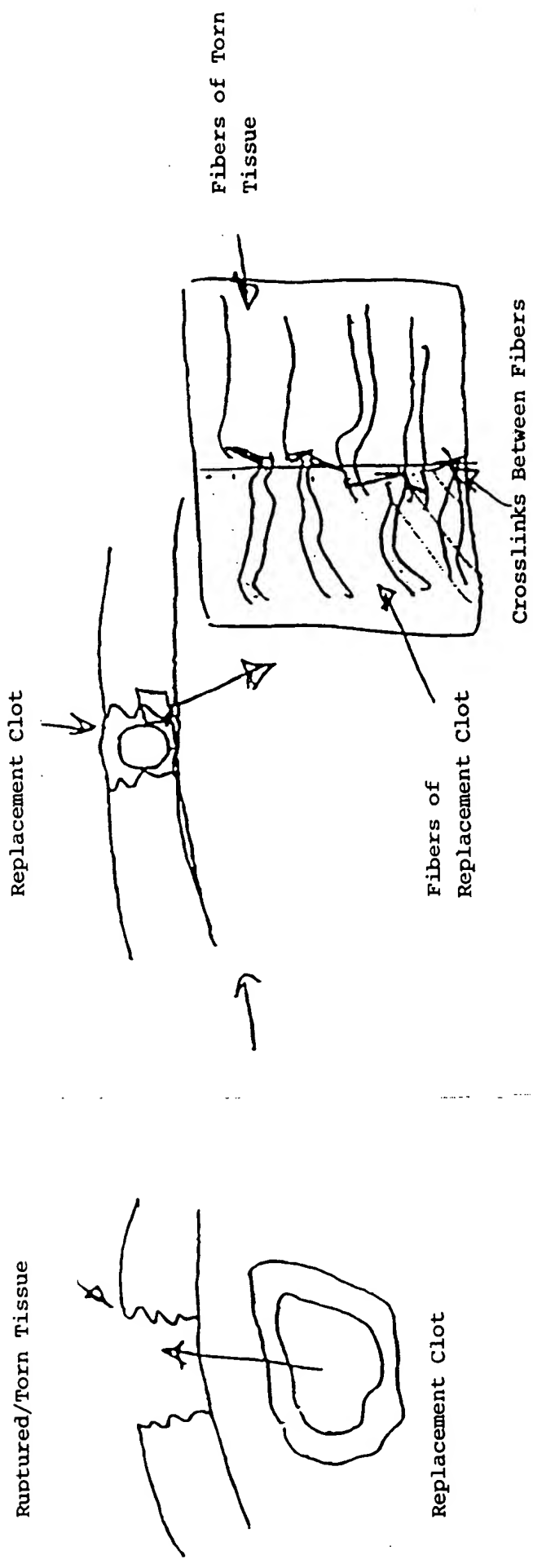
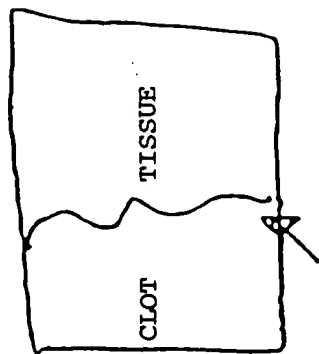
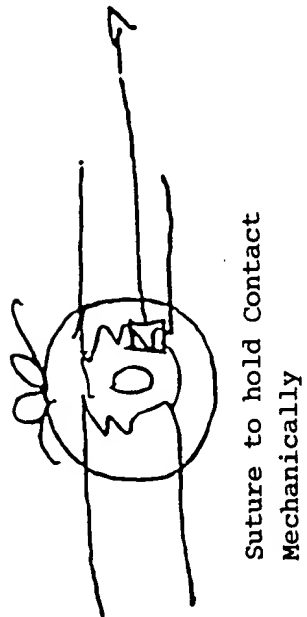
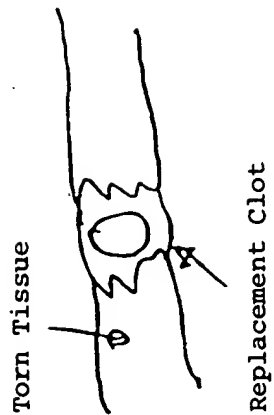


FIG. 2

TO 22/0" 850/T650



Held Together by Pressure,
Contact Maintained

FIG. 3

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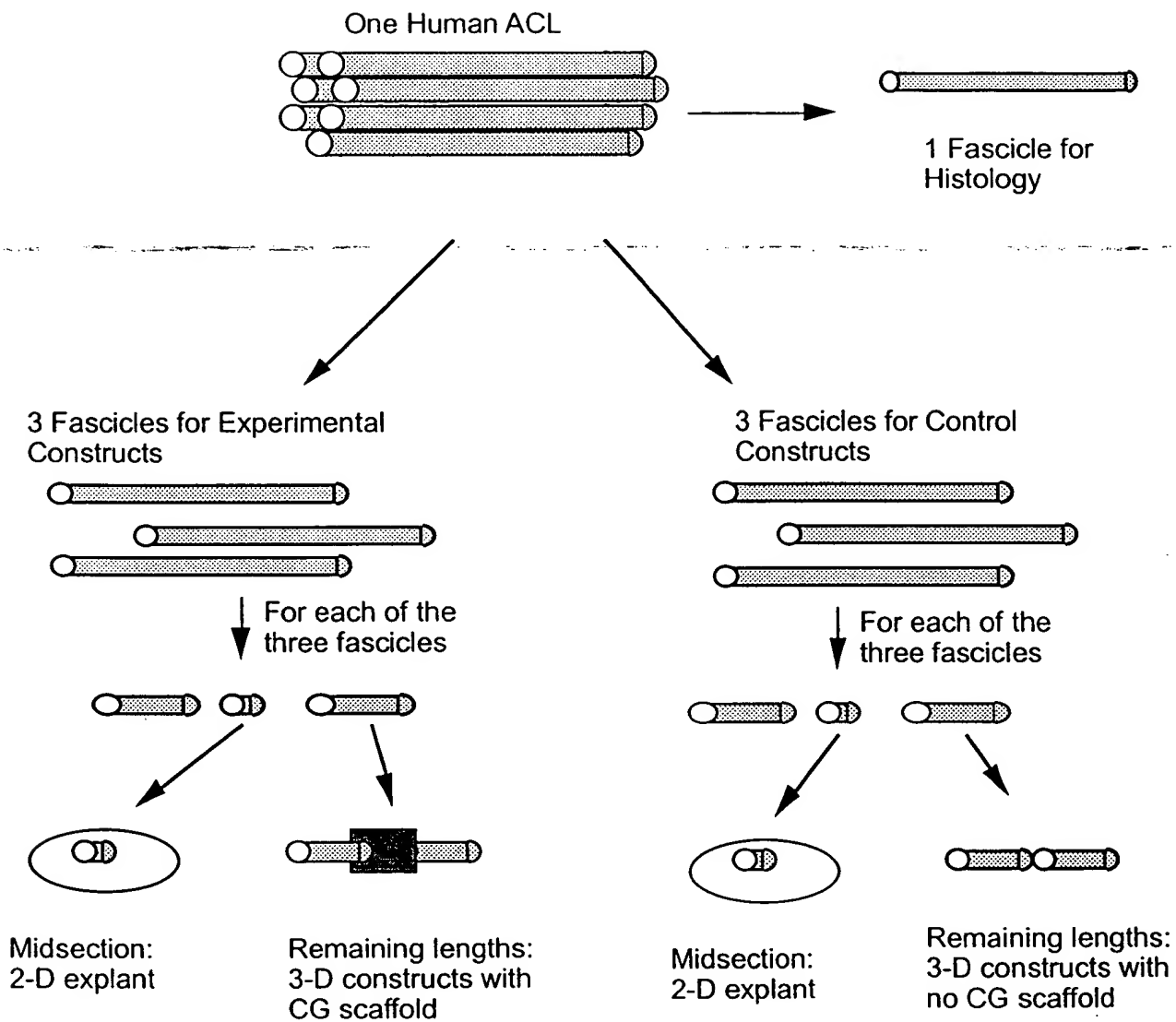


FIG. 4

Figure 5: Schematic of experimental and control three-dimensional constructs

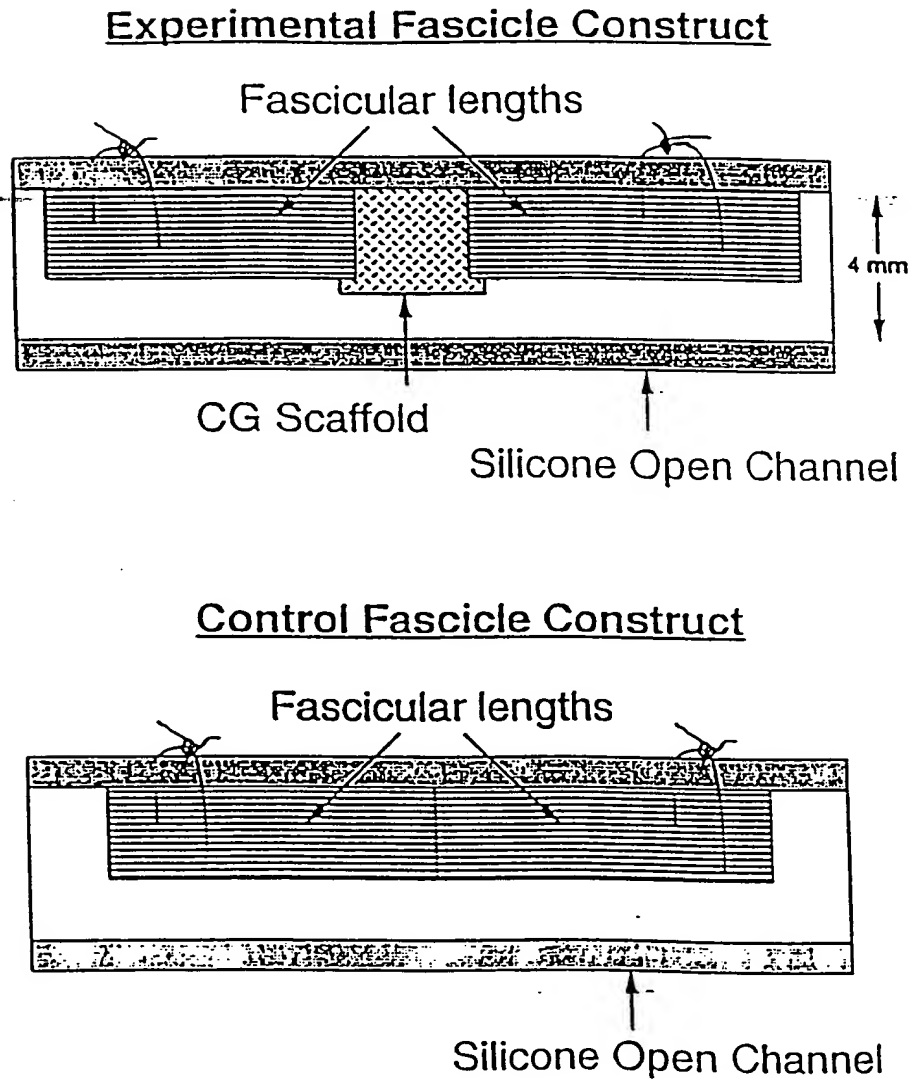


Figure 6: Effective Radius of Outgrowth as a Function of Time for Human ACL Explants

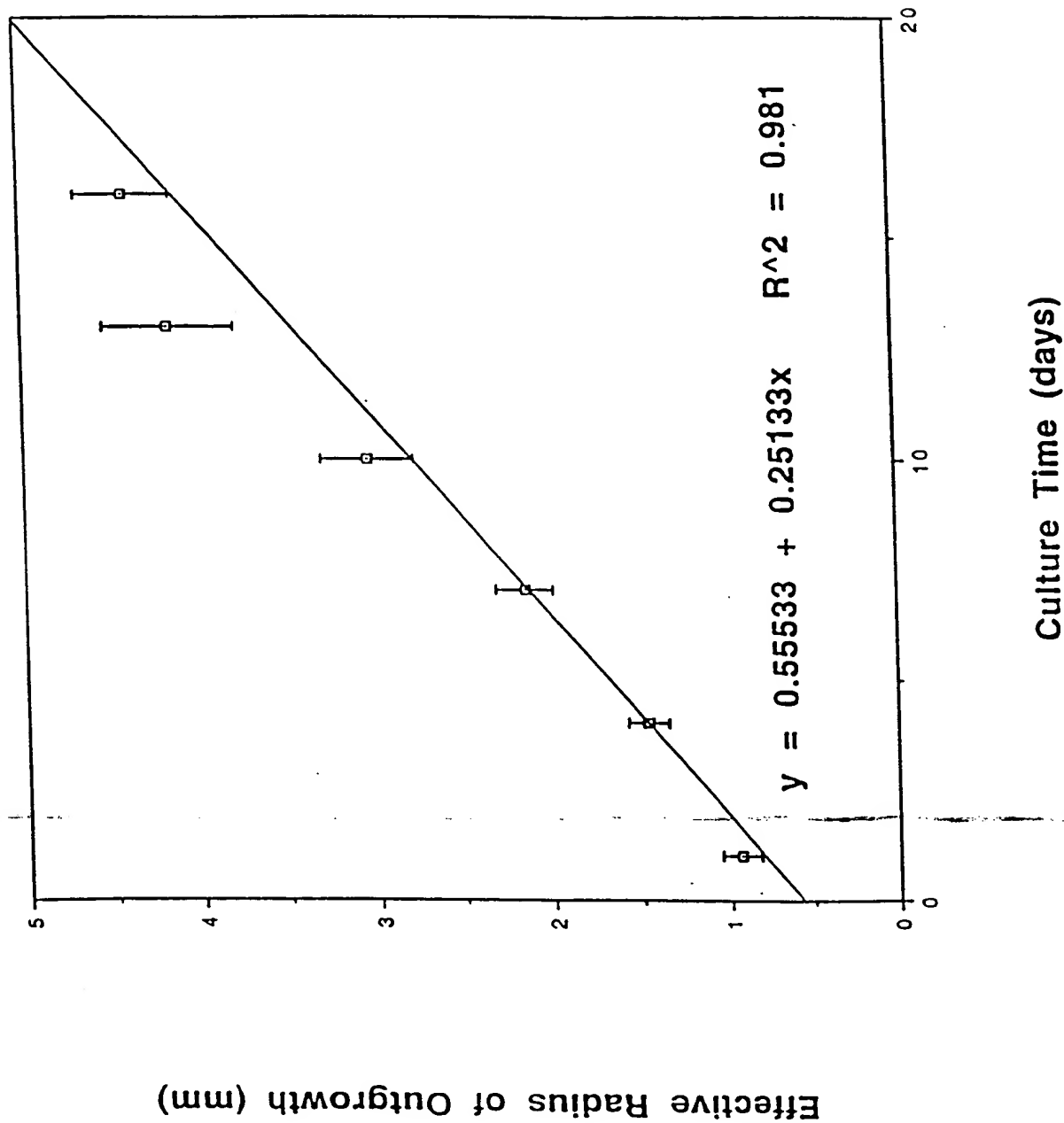


Figure 7: Changes in Cell Number Density in the Fascicle-
CG Scaffold Construct as a Function of Time in Culture

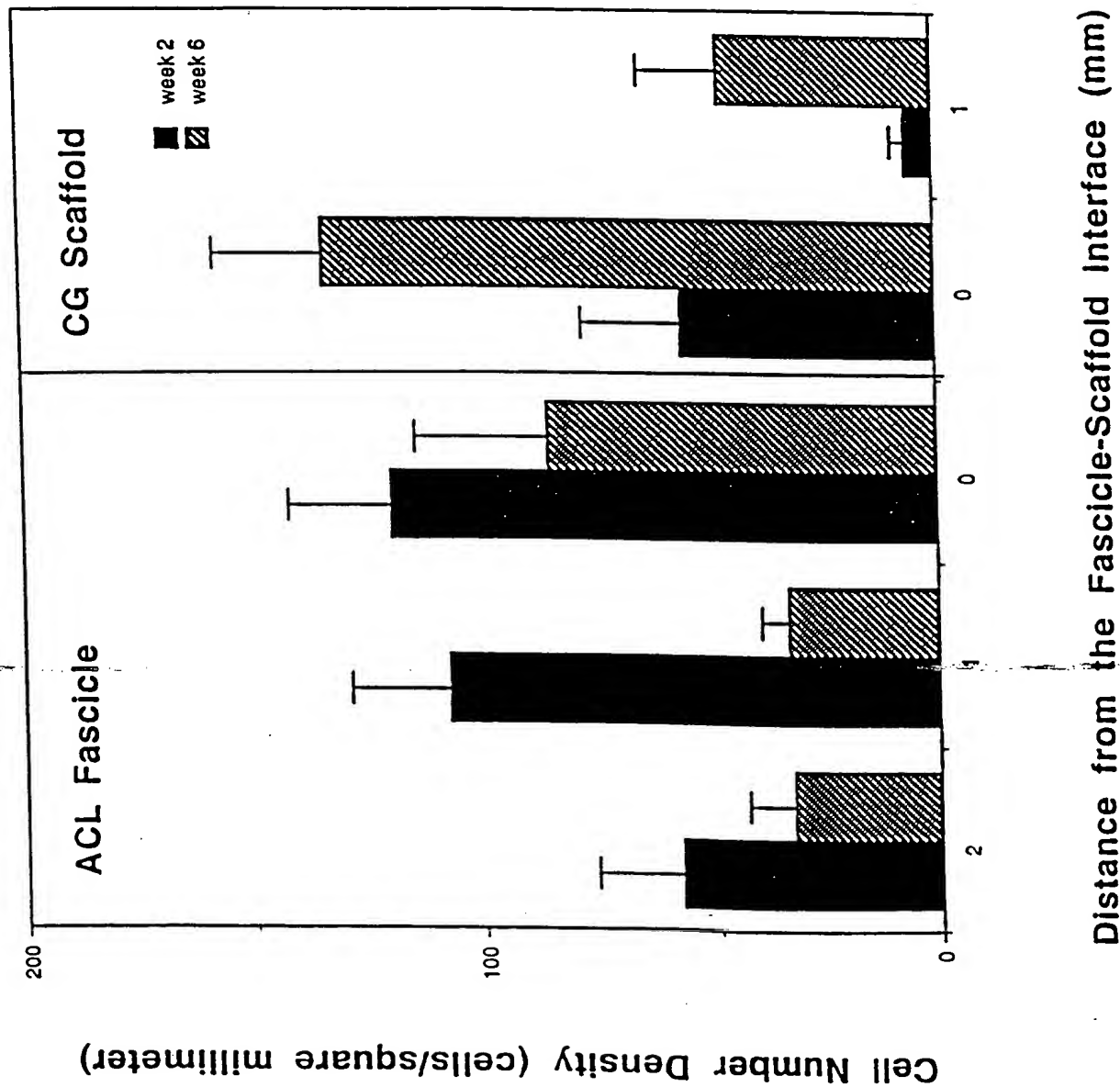
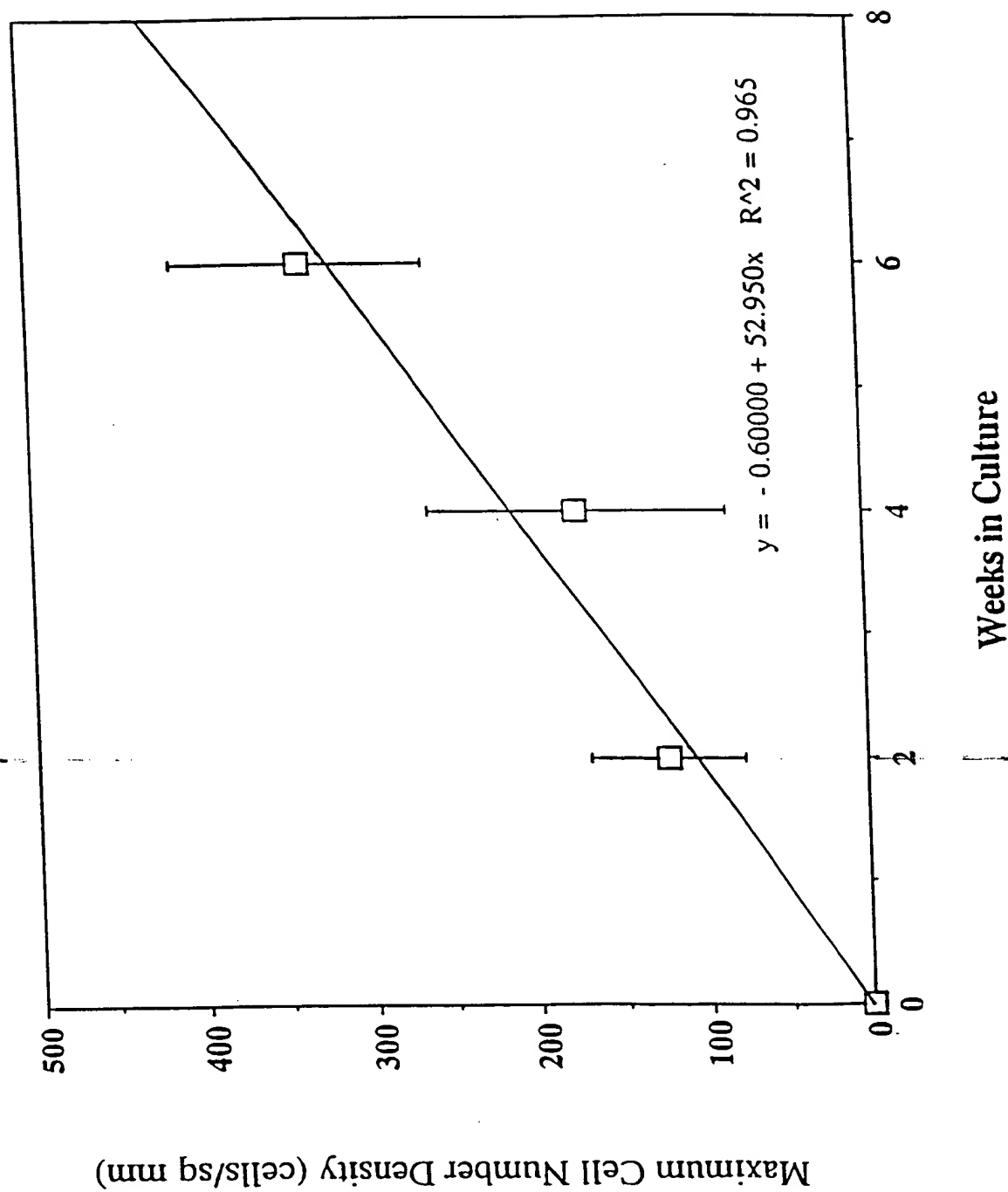


Figure 8: Maximum Cell Number Density in the Collagen-Glycosaminoglycan Scaffold as a Function of Weeks in Culture



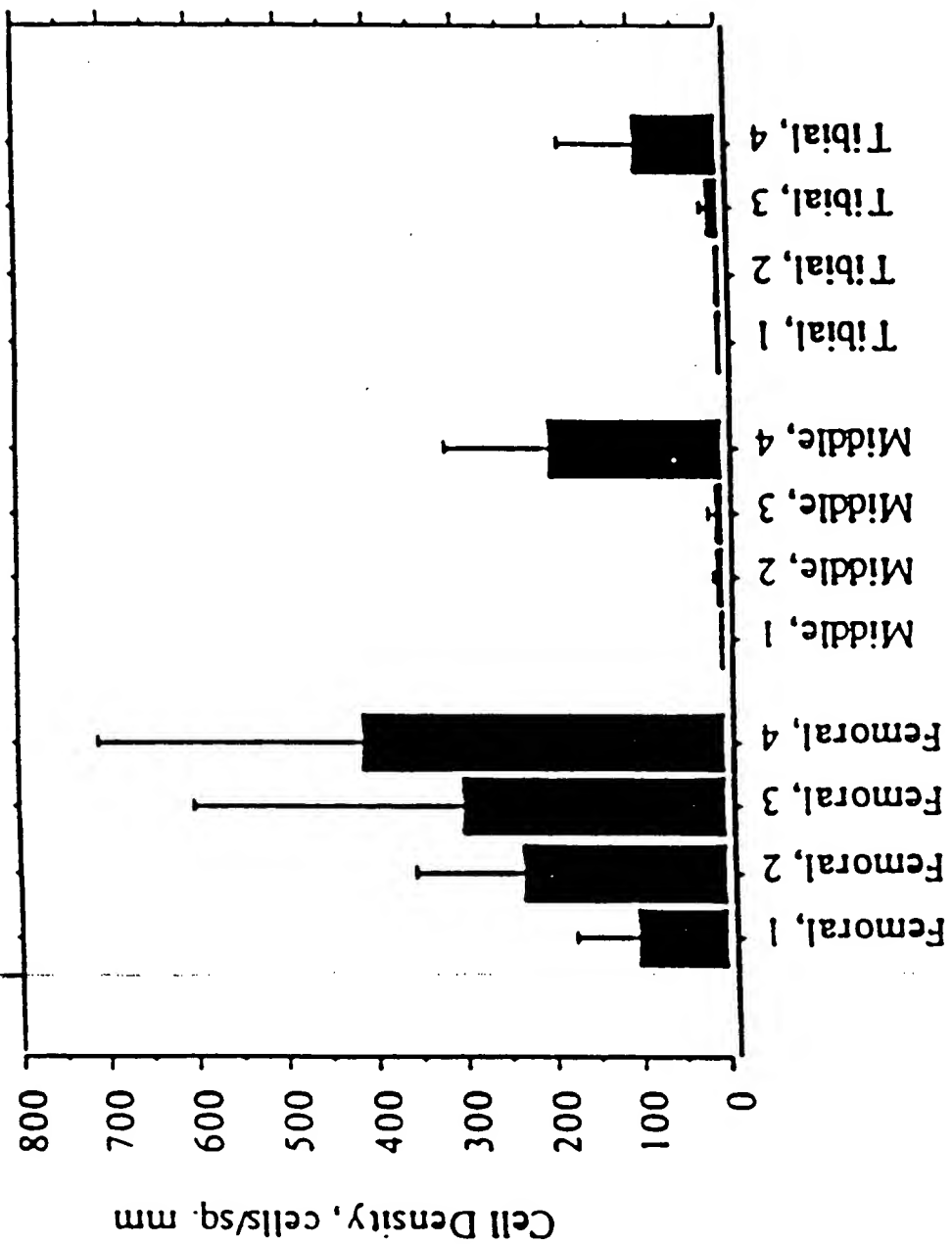


FIG. 9

Migration into CG Scaffold from Explants of Intact and Ruptured Human ACLs

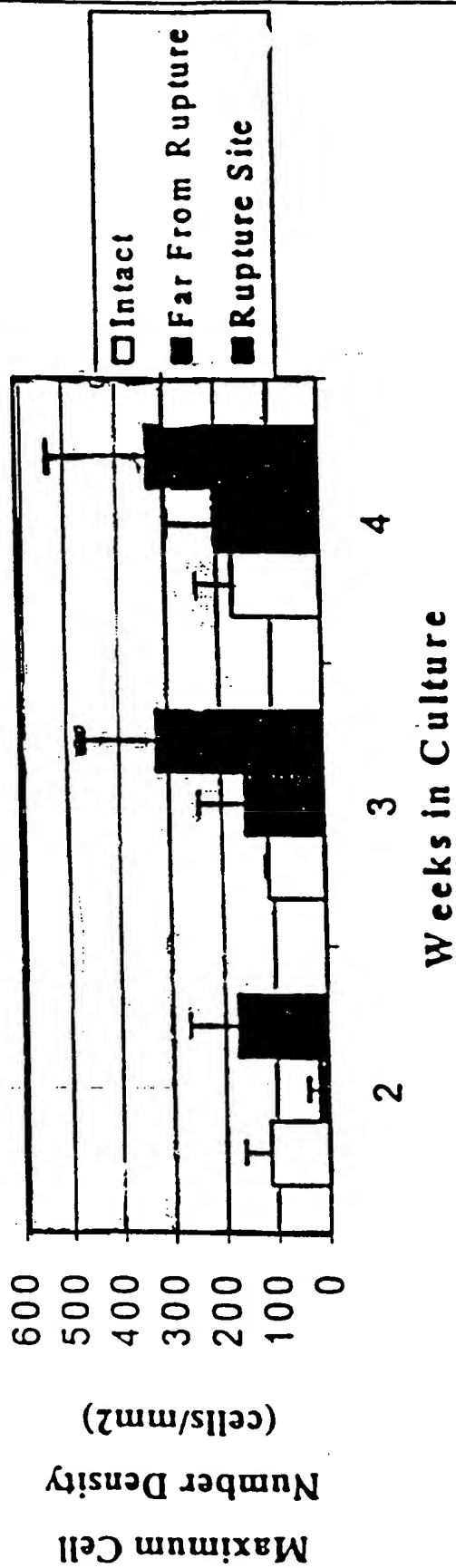


Figure 10 Mean \pm SEM

Figure 11. Cell number density near the site of rupture in the human ACL as a function of time after injury

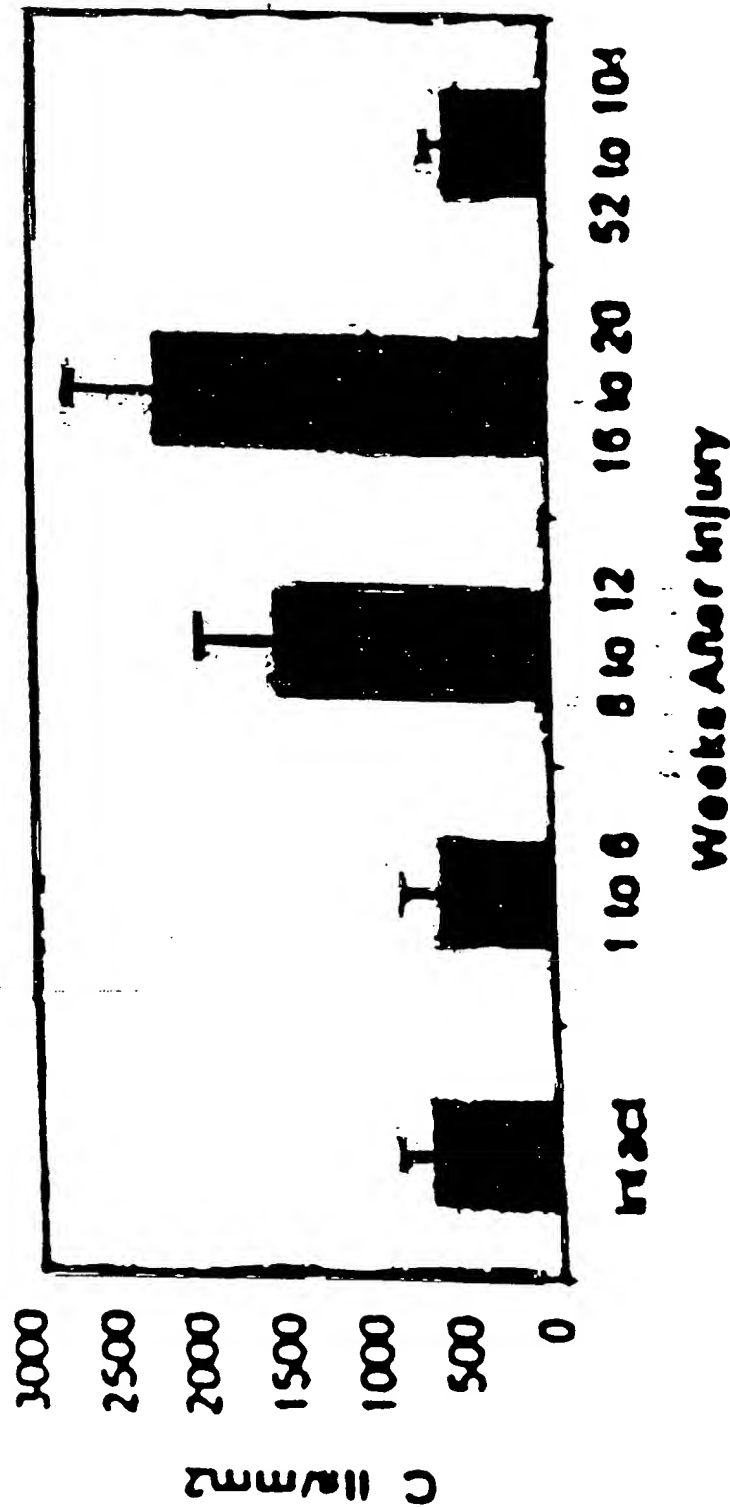


FIG. 11

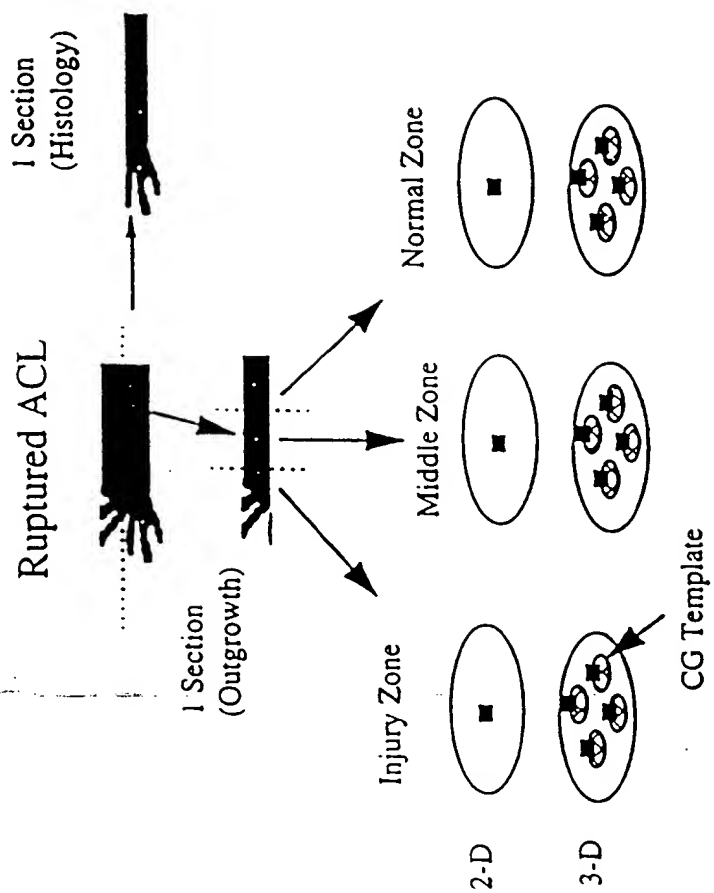


FIG. 12

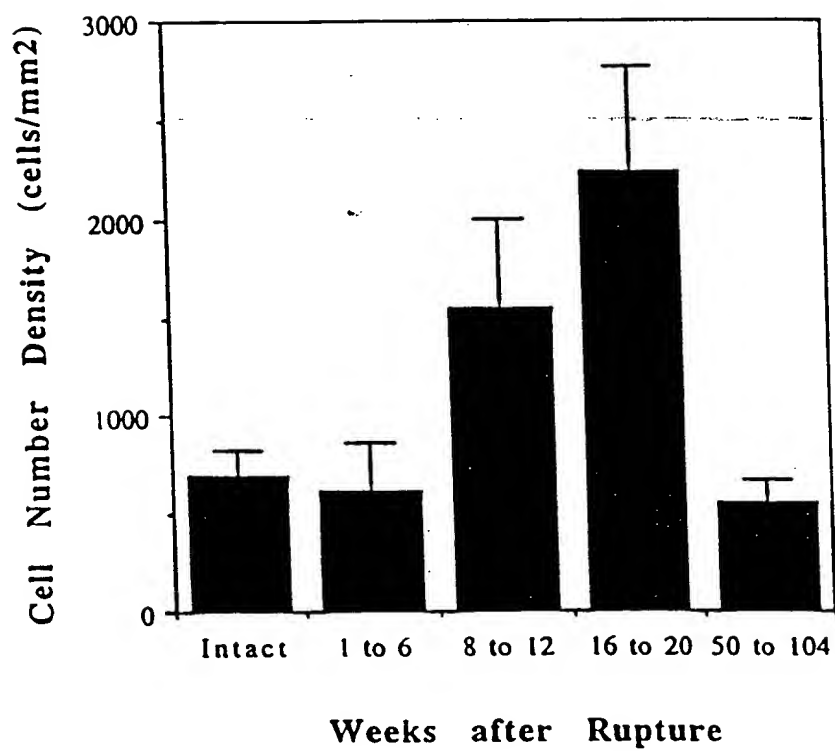


FIG. 13

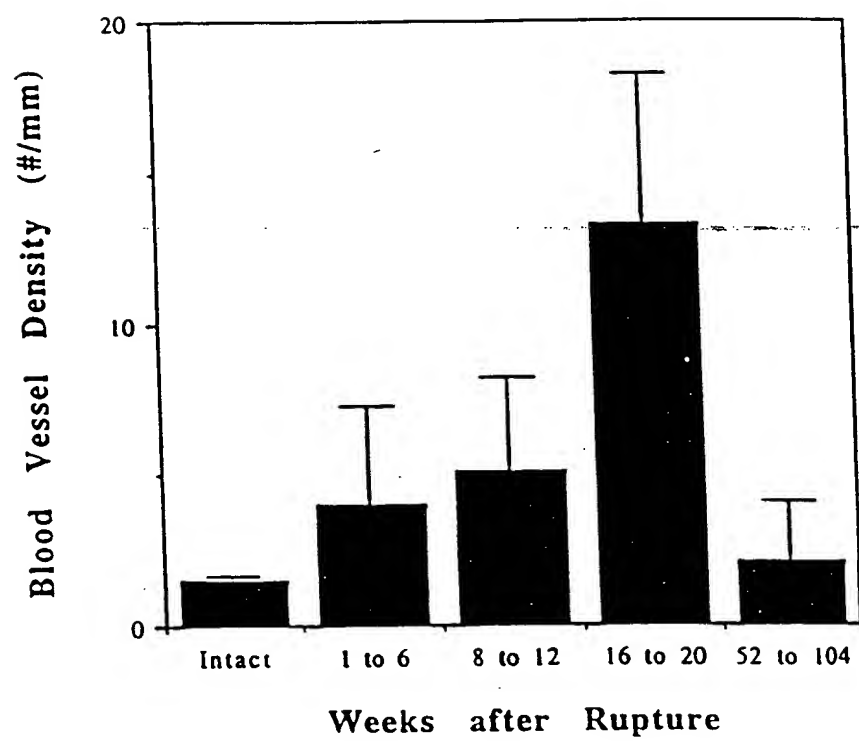
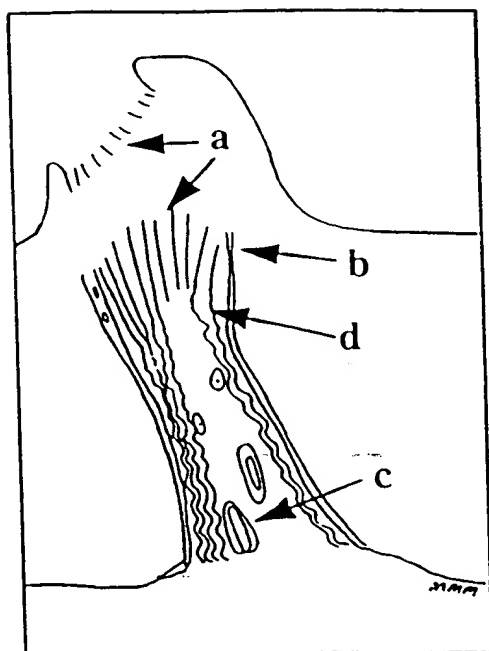
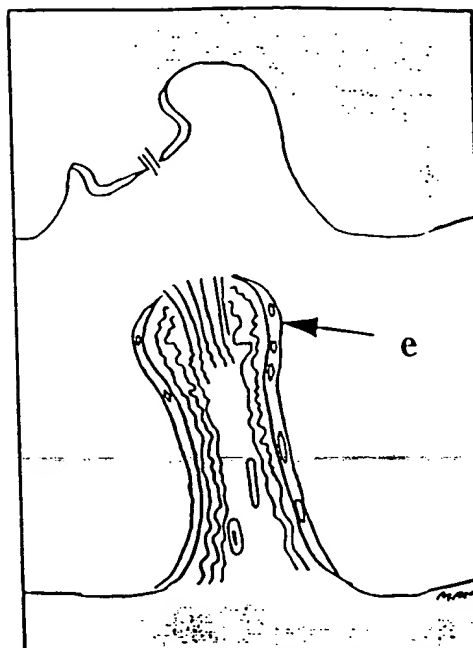


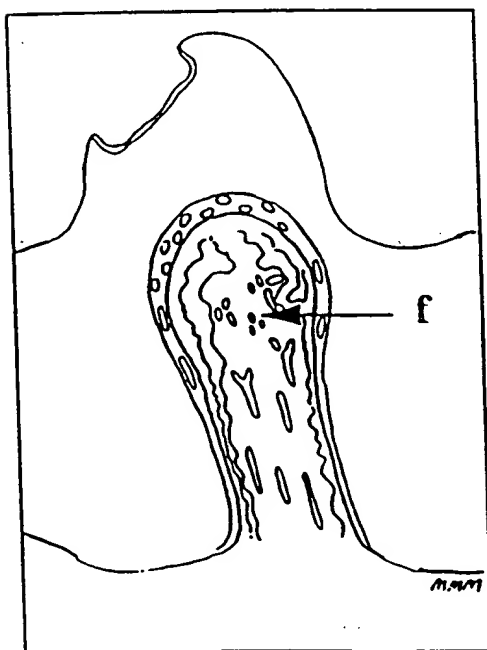
FIG. 14



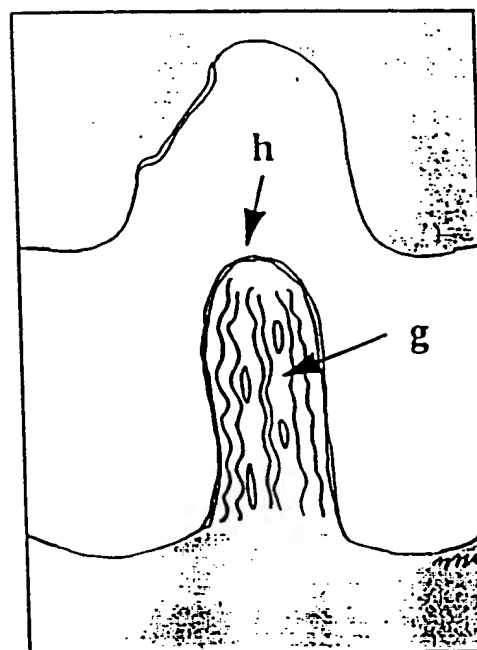
A. Inflammation



**B. Epiligamentous
Regeneration**



C. Proliferation



D. Remodelling

FIG. 15

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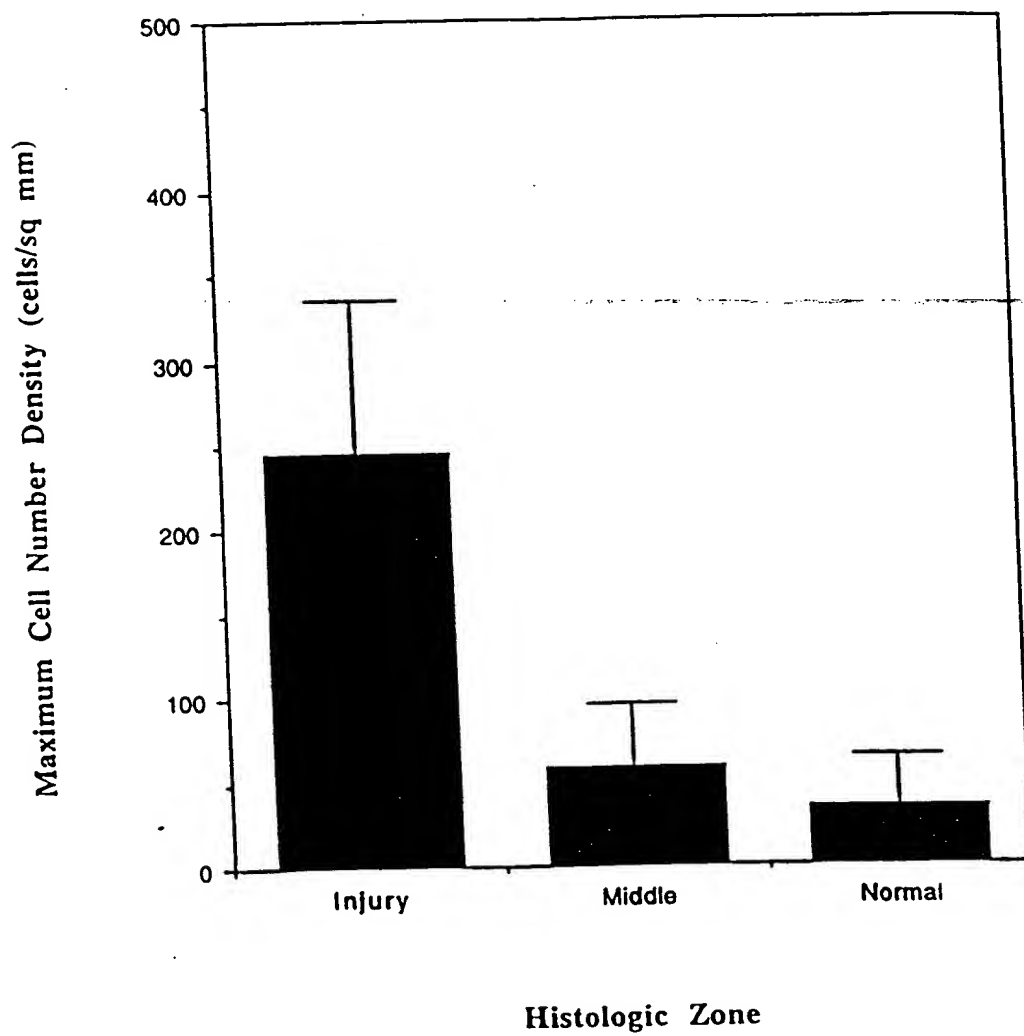


FIG. 16

Effect of Location on Outgrowth Rate for High and Low Serum Concentration

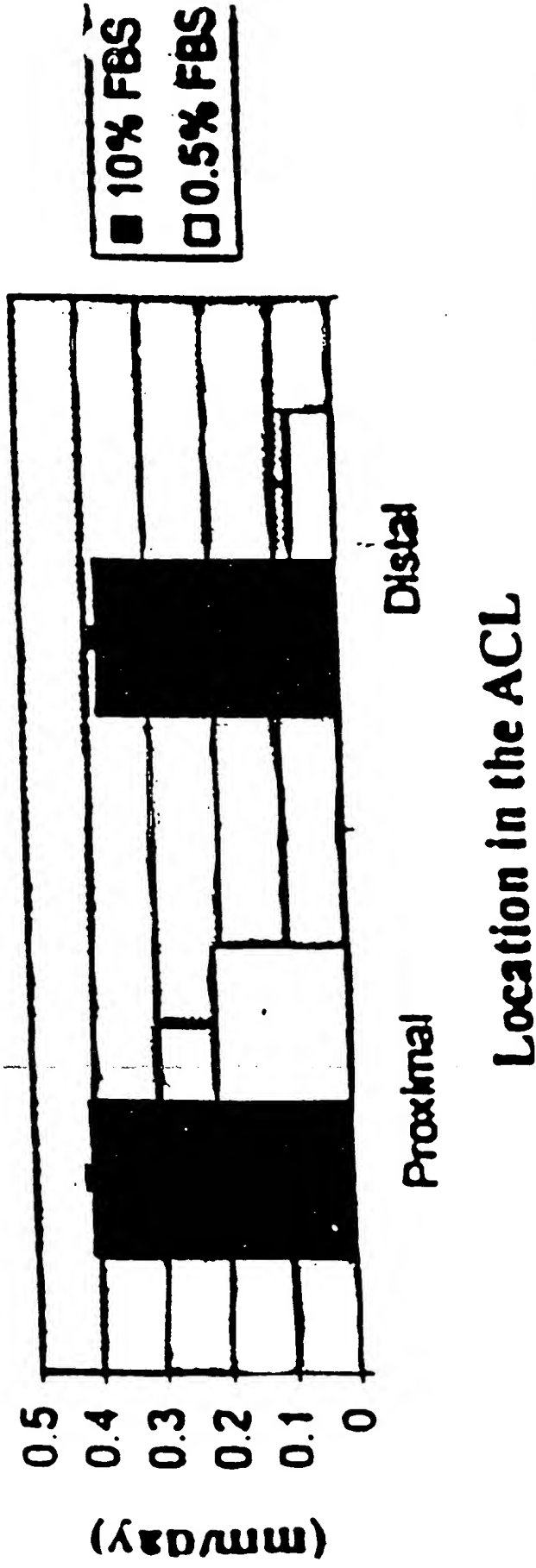


Figure 17 Mean \pm SEM

Outgrowth rates from human ACL explants as a function of location and TGF-beta concentration

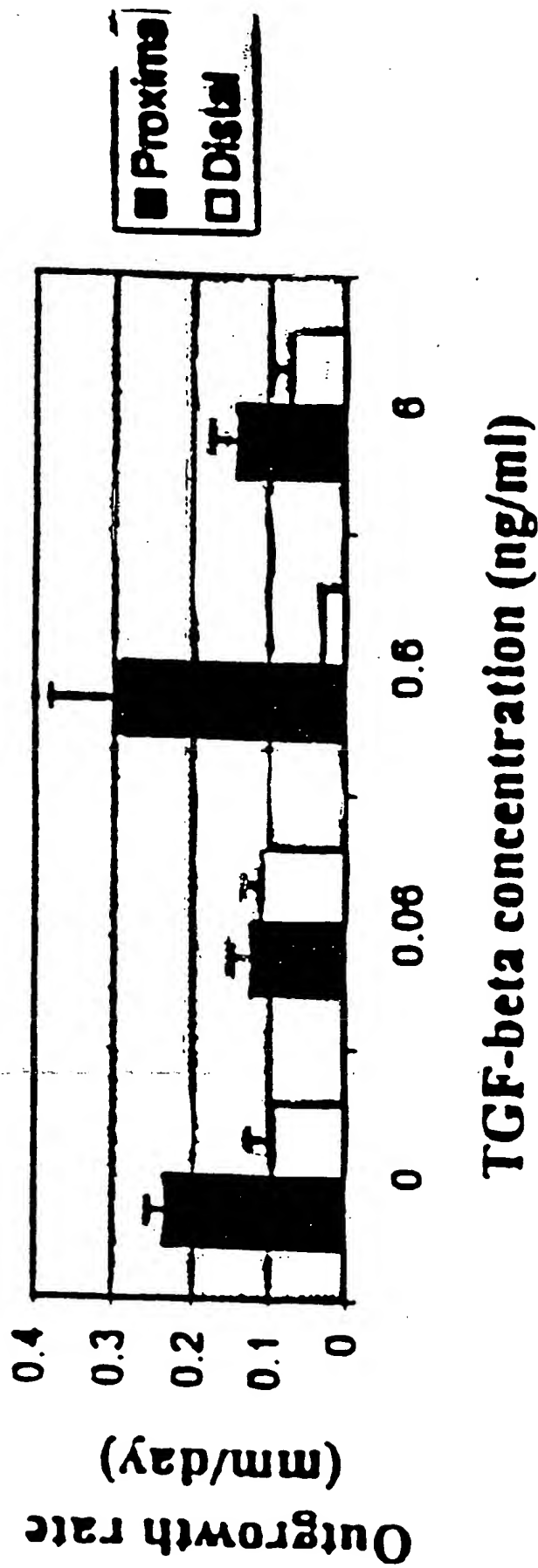


Figure 18 Mean \pm SEM

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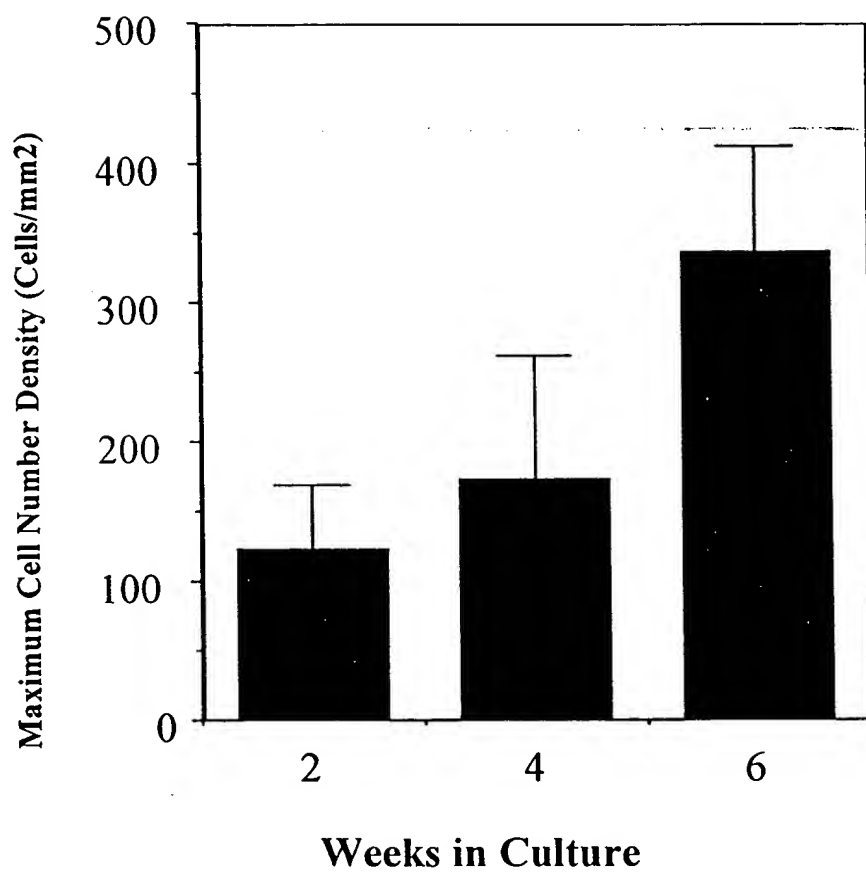
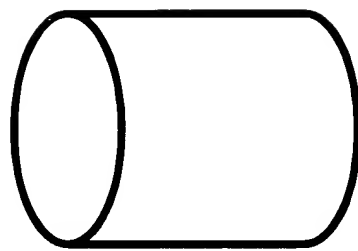
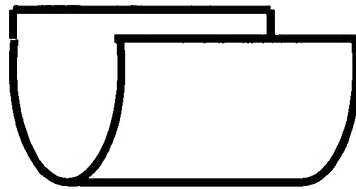


FIG. 19

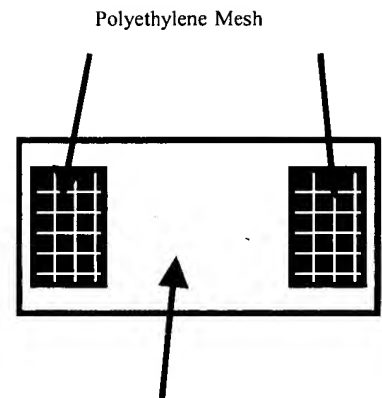
Figure 20



1" Length of 6mm
ID Silicon Tubing



Cut in half
lengthwise to form
trough

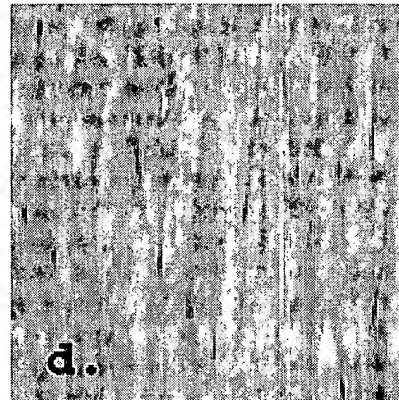
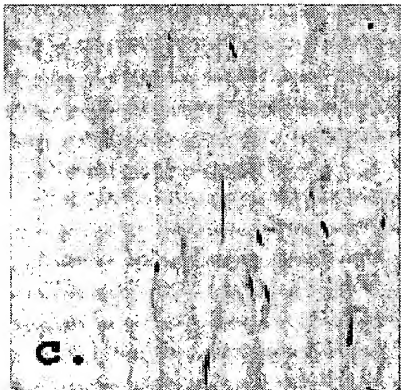
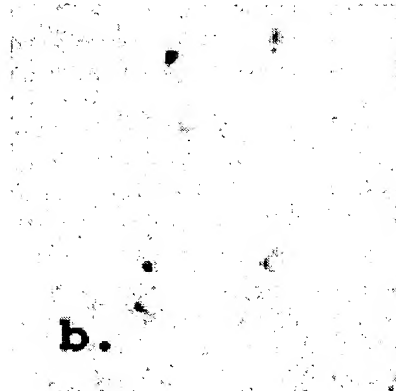
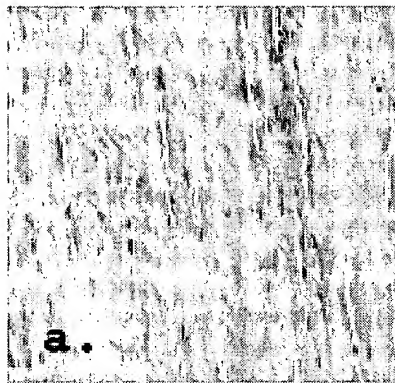


View from top

Polyethylene Mesh

300 microliters of gel
with cells added

TRA 1540299v1

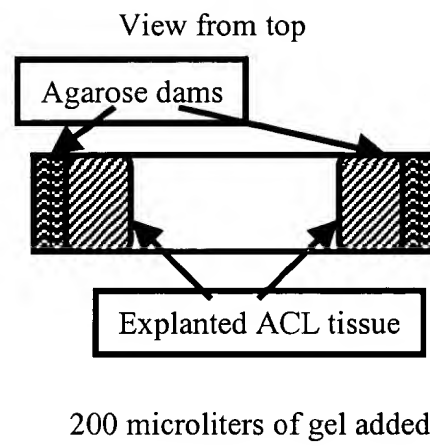


Experiment 11/00

- a. Intact Human ACL**
- b. Gel with Cells at 3 hours of culture**
- c. Gel with Cells at 3 days of culture**
- d. Gel with Cells at 9 days of culture**

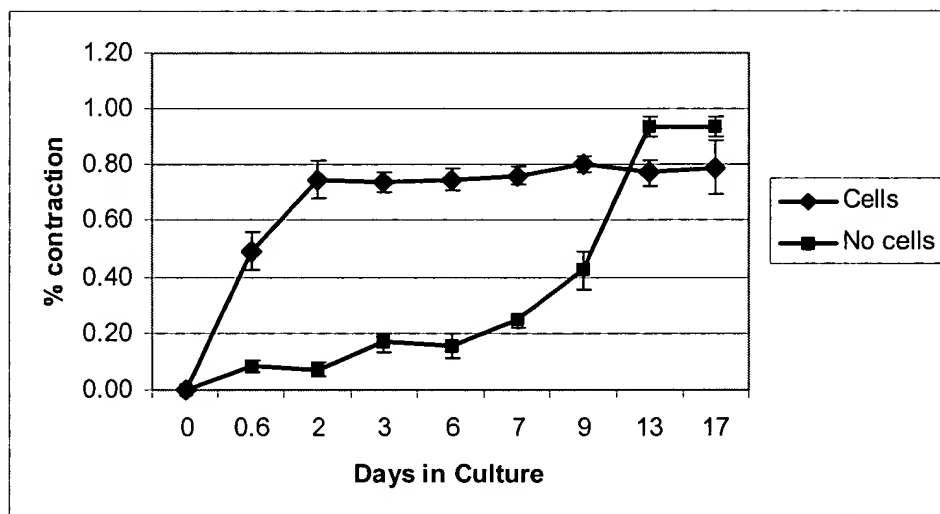
Figure 21

FIG. 22



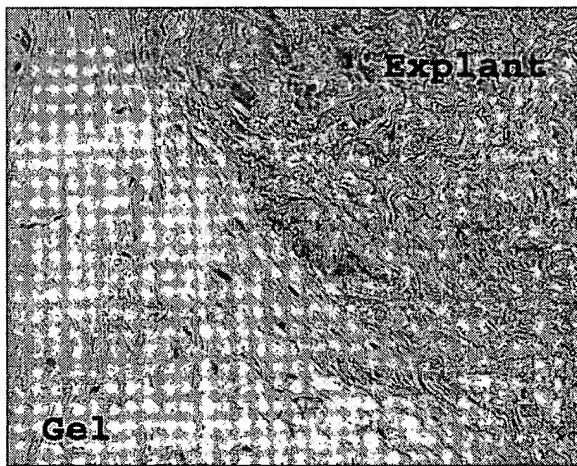
10/2/08 850/1660

FIG. 23

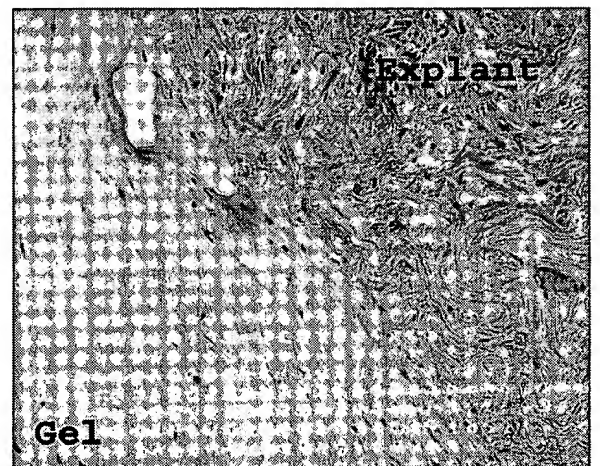


TRA 1540305v1

FIG. 24

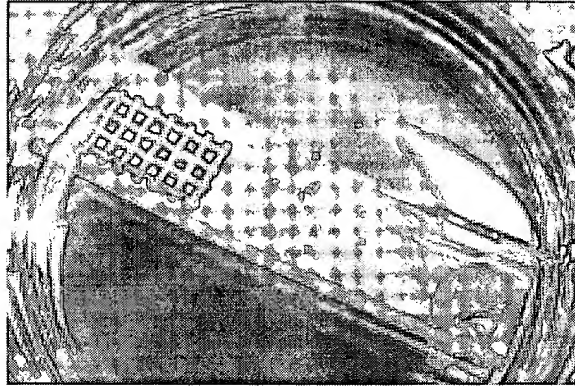


Day 21: Cells



Day 21: Cell-free

FIG. 25



10/2/0" 850/1550

TRA 1540308v1

FIG. 26

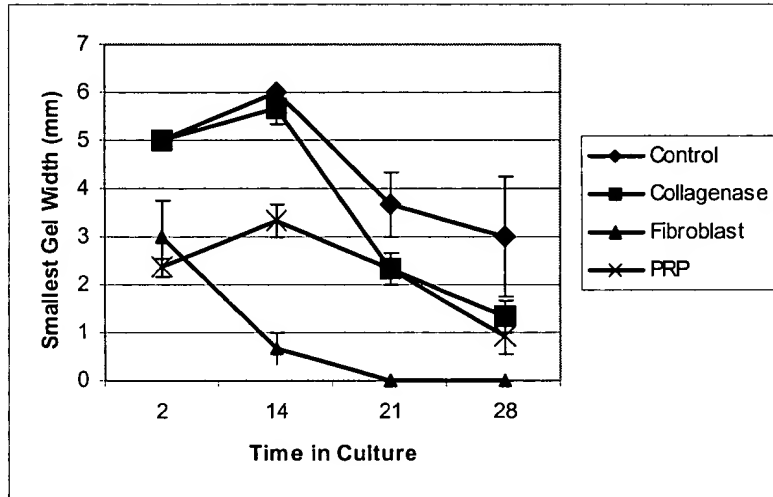
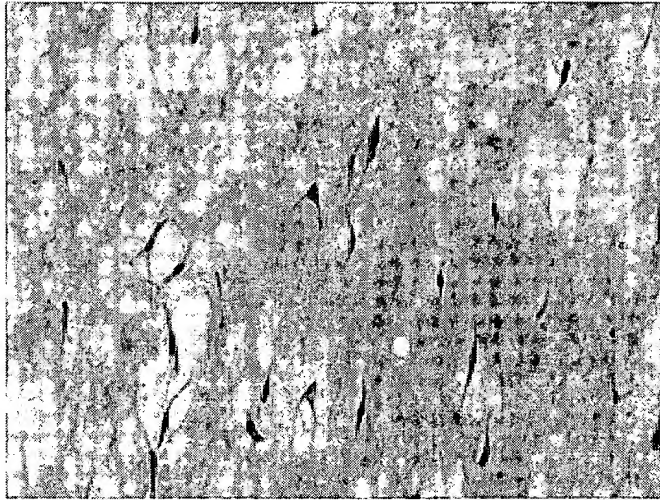


FIG. 27



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Fig. 28

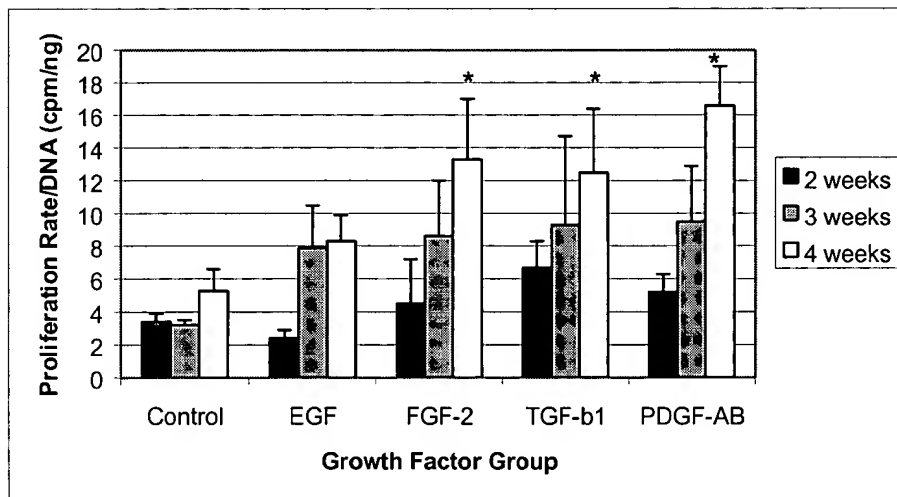
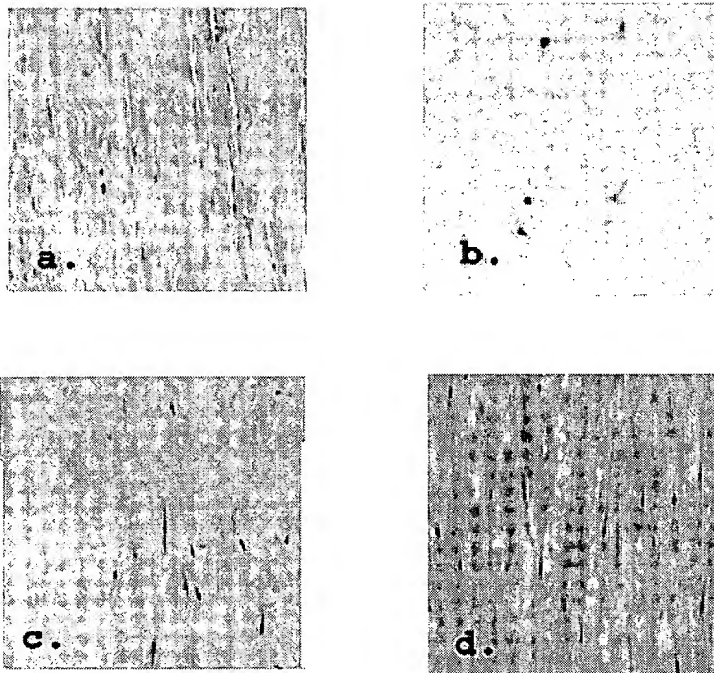


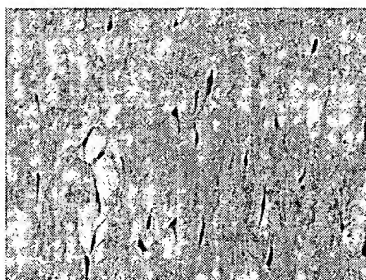
Fig. 29



Experiment 11/00

- a. Intact Human ACL**
- b. Gel with Cells at 3 hours of culture**
- c. Gel with Cells at 3 days of culture**
- d. Gel with Cells at 9 days of culture**

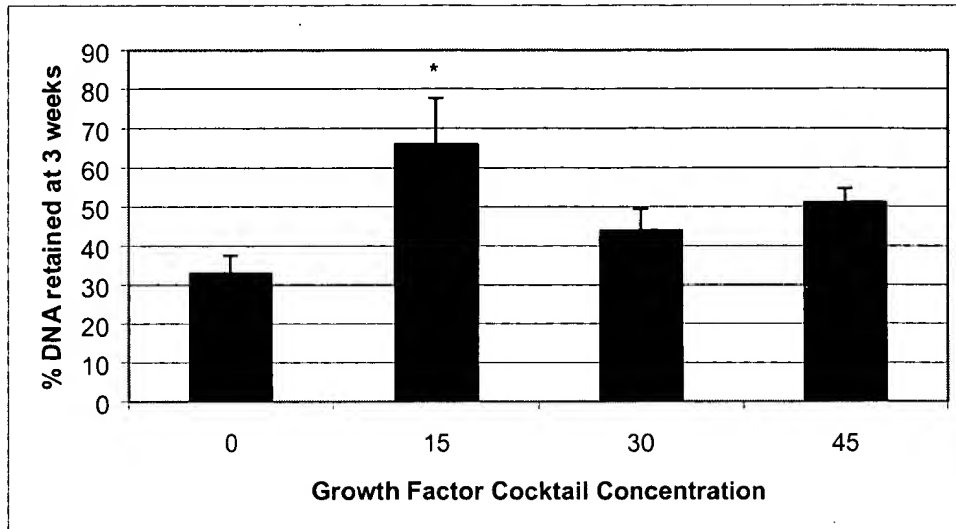
Fig. 30



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TRA 1547908v1

FIG. 31



TRA 1547910v1

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